

Species Tag:	14003	Name:	¹³ C
Version:	1		Methyldiyne
Date:	April 2009		X ² Π states
Contributor:	B. J. Drouin		
	D. T. Halfen		
Lines Listed:	628	Q(300.0)=	227.1044
Freq. (GHz) <	1651	Q(225.0)=	167.8473
Max. J:	16	Q(150.0)=	108.8372
LOGSTR0=	-12.0	Q(75.00)=	50.4330
LOGSTR1=	-12.0	Q(37.50)=	21.9926
Isotope Corr.:	0.	Q(18.75)=	8.2734
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	2.0572
μ _a =	1.46	A=	
μ _b =		B=	422946.7
μ _c =		C=	

The laboratory spectra of Halfen D.T., *et al.* Ap. J. 687(1), 731-736, 2008, were combined with the data of McCarthy, M. C., Mohamed, S., Brown, J. M., and Thaddeus, P. 2006, Proc. Nat. Acad. Sci., 103, 12263, in a fit to a Hund's case (b) Hamiltonian with fine and hyperfine structure parameters. Additional hyperfine parameters improved the fit considerably and one rotational transition was excluded in the catalog analysis (see archive). The dipole moment for the main isotopomer was taken from D. J. Phelps and F. W. Dalby, 1966, Phys. Rev. Lett. **16**, 3.